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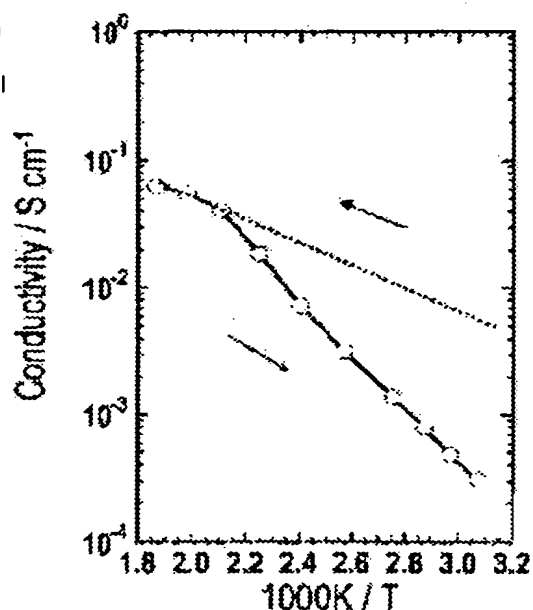
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(54) SULFIDE CERAMICS WITH HIGH LITHIUM ION CONDUCTIVITY AND ALL SOLID CELL USING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide sulfide ceramics of high lithium ion conductivity and decomposition voltage.

SOLUTION: The solid electrolyte for a lithium ion secondary cell is composed of Li_2S and P_2S_5 as a main component, where a crystalline sulfide in which Li_2S of mole % of 82.5-92.5 and P_2S_5 of mole % of 7.5-17.5 are comprised, shows a high lithium ion conductivity. Here, the higher-temperature stable phase shows very high lithium ion conductivity.

LEGAL STATUS

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